

WHAT IS CLAIMED IS:

1. A Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material comprising:

an antenna and a radio portion for communicating with roadside radio equipment;

a data processing portion for processing data received from said radio portion;

a housing in which at least said antenna, said radio portion, and said data processing portion are housed; and

an adhesive material having a first surface affixed to said housing and a second surface for affixing to a vehicle window,

wherein:

a protruding portion engaged with said adhesive material is disposed on said housing.

2. A Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material comprising:

an antenna for communicating with roadside radio equipment;

a housing in which only said antenna is housed; and

an adhesive material having a first surface affixed to said housing and a second surface for affixing to a vehicle window,

wherein:

a protruding portion engaged with said adhesive material is disposed on said housing.

3. The Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to Claim 1, wherein:

said protruding portion is fitted into an aperture formed on said adhesive material.

4. The Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to Claim 1, wherein:

a height of said protruding portion is less than a thickness of said adhesive material.

5. The Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to Claim 1, wherein:

a leading end surface of said protruding portion is a flat surface.

6. The Dedicated Short-Range Communications (DSRC) on-board unit with an adhesive material according to Claim 1, wherein:

antenna characteristics are matched by adjusting a shape of said antenna.